PUSAT PENGAJIAN SISWAZAH
(*Centre For Graduate Studies*)
Universiti Utara Malaysia

PERAKUAN KERJA KERTAS PROJEK
(Certificate of Project Paper)

Saya, yang bertandatangan, memperakukan bahawa
(I, the undersigned, certify that)

ZAKARIA K.D.ALKAYYALI

calon untuk Ijazah
(candidate for the degree of) **MSc. (IT)**

telah mengemukakan kertas projek yang bertajuk
(has presented his/her project paper of the following title)

A PROTOTYPE OF WEB-BASED COMPUTER SKILLS TRANING COURSE FOR AL QUDS OPEN UNIVERSITY (QOU)

seperti yang tercatat di muka surat tajuk dan kulit kertas projek
(as it appears on the title page and front cover of project paper)

bahawa kertas projek tersebut boleh diterima dari segi bentuk serta kandungan dan meliputi bidang ilmu dengan memuaskan.
(that the project paper acceptable in form and content, and that a satisfactory knowledge of the filed is covered by the project paper).

Nama Penyelia Utama
(Name of Main Supervisor): **ASSOC. PROF. DR. WAN ROZAINI SHEIK OSMAN**

Tandatangan
(Signature) : Rozaini

Tarikh
(Date) : 2 Okt 2006

A Prototype of Web-Based Computer Skills Training Course for AlQuds Open University (QOU)

Zakaria Khali D. Al Kayyali

Uniiverstiy Utara Malaysis

2006

A Prototype of Web-Based Computer Skills Training Course for AlQuds Open University (QOU)

A Thesis submitted to the Faculty of Information Technology
in partial fulfillment of the requirement for the degree
Master of Science (Information Technology)
University Utara Malaysia

UUM

by
Zakaria K. D. Al Kayyali
2006

Abstract

E-Applications become the most important proverb in the modern electronic world, which depend on computer based system in many fields in the world. It help links people, systems and others resources making life easier and better.

The purpose of this project is to develop a prototype of Web-based Training system for Al Quds Open University (QOU). This prototype used the Microsoft VB.Net and Microsoft SQL Server as Database. This project is important in order to make the training tasks easier than current way and to allow the QOU staff attending training courses anytime anywhere.

ACKNOWLEDGEMENTS

In the name of Allah,

On behalf of myself, and my kids my wife & children wish to acknowledge all the people who helped in the completion of this project: First Assoc. Prof. Dr. Wan Rozaini bt Sheik Osman and Dr. Faudziah Ahmad, who are my supervisors, for their ongoing optimism, guidance, and leadership and Mr. Yousef Sabah, Training Manager at Al Quds Open University, for providing suggestions, resources, and support, in this project. A very special thank you goes out to my mother and my brothers specially Mohammad, for their patience and understanding during this challenging time.

LIST OF TABLES

LIST OF FIGURES

LIST OF ABBREVUATIONS

QOU	Al Quds Open University
EVW	Exeter Virtual Worlds
ECHOES	Educational Hypermedia On-line System
WWW	World Wide Web
WBT	Web-Based Training
FPGA	Field Programmable Gate Array
JTAG	Joint Test Action Group
ISD	Instructional Systems Design
ADDIE MODEL	Analysis, Design, Development, Implementation, and Evaluation
IT	Information Technology
APIS	Application Programming Interfaces
CSUQ	Computer System Usability Questionnaire

TABLE OF CONTENTS

CHAPTER 1

INTRODUCTION

1.1. Background of the study

Internet technology makes the world as small as a village. An important of an Information System development, is the implementation stage. Training is a vital factor to ensure success of a system, for staff especially after the implementation of the new system. Online training allows employers to train large numbers of staff across locations, and training is important to organizations. Training as it is effort to modify or develop knowledge, skills and attitudes through learning experiences, to achieve effective performance in an activity or a range of activities (Zuhaidah, 2004).

The organizations are rapidly becoming aware that training their personnel is not an option, but an essential aspect to survive technological advancements and global competition (Rice and Robin, 2005).

This project is to develop a prototype of web-based training system for AlQuds Open University (QOU) that facilitate training environment. This will make the training tasks easier than the current way. QOU is a governmental university in Palestine; it has more than 20 branches in Palestine and three branches in other countries. All branches have academic staff and

The contents of the thesis is for internal user only

References

Blake, C., Gibson, J.W. and Blackwell, C.W. (2003). Web-based training: *What supervisors need to know. Supervision*, 64(12), 3.

Dennis, A., Wixom, B. and Tegarden, D. (2005). System Analyses And Design With UML Ver. 2.0 An Object-Oriented Approach Second Edition

Chris B. and M. Lang (2001). A Survey of Multimedia and Web Development Techniques and Methodology Usage , 8 ,pp. 52-60.

Connolly, T.M., & Begg, C.E. (2002). *Database system: A practical approach to design, implementation and management* (3rd Ed.). USA: Addision-Wesley

DeLuca, R.J. (2002). Using the internet to achieve your workplace training objectives *Applied Occupational & Environmental Hygiene*, 17(12), 814

Driscoll, M. (1998). Web-based training: *Using technology to design adult learning experiences.* San Francisco, CA: Jossey-Bass Pfiffer .

Driscoll, M. and Thomson, R.(1997). The Web as a learning environment. Enabling Technologies: Infrastructure for Collaborative Enterprises, *Proceedings Sixth IEEE workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises,* , pp 333-339.

Grange, S.; Jones, G. and Bunker, T.(2000). Using Java to embed complex simulation media into surgical training environments. *Proceeding IEEE EMBS International Conference on Information Technology Applications in Biomedicine,* 2000 .pp190-196

Izurni, H., Murakoshi, H., Mori, H., Sakamaki, K., Hatano, Y., Shirai, T., Murayama, S. and Ugajin, T.(2001). Proposal of the web-based training system for the experiment of the digital circuit. *Proceeding Industrial Electronics Society, 2001. IECON '01. The 27th Annual Conference of the IEEE* .pp 1766 – 1770.

Kruse, K. and Keil, J. (2000). Technology based training- the art and science of design, *Development and Delivery*. San Francisco, Ca.: Jossey-Bass Pfeiffer

Laudon ,K.C.,& Laudon,J.P. (2000).*Management information system: Organization and technology in network enterprise* (6th Ed). New Jersey:Prentice Hall.

Laudon ,K.C.,& Laudon,J.P. (2004).*Management information system: Managing the digital firm.* New Jersey: Prentice Hall

Lewis, J. R. (1995) IBM Computer Usability Satisfaction Questionnaires: Psychometric Evaluation and Instructions for Use. International Journal of Human-Computer Interaction, 7:1, 57-78

Microsoft Corporation (2005).Testing Methodologies. Retrieved June 20, 2006 from http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnpag2/html/mtf_ch02.asp

Minotti, J. and Giguere, P. (2003) . The Realities of Web-based Training, The Journal, 30, p411

Pasquarelli, A., de Stefani, F., O'Hare, G.M.P. and Murphy, A.J. (1999). ECHOES: educational hypermedia on-line system. *Proceeding IEEE International Conference on Multimedia Computing and Systems,* 1999.pp1114 – 1116

Rice C. C. and Robin B. (2005). Comparing the comprehension of employees at Hewlett-Packard who have participated in interactive web-based training and the comprehension of employees at Hewlett-Packard who have participated in static web-based training

Zuhaidah Salleh (2004). An Assessment of training practices in SMEs in Kedah And Perlis. Master thesis, UUM